

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Mitsuhiko TANAHASHI et al. :
Serial No. NEW : **Attn: APPLICATION BRANCH**
Filed August 22, 2003 : Attorney Docket No. 2003_1201

HEAT-RESISTANT CRIMPED YARN
(Rule 1.53(b) Divisional
of Serial No. 09/913,851,
Filed October 3, 2001)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of ☒ the references listed on attached form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. A legible copy of each reference listed on the form PTO-1449 and each U.S. patent application listed below is enclosed, except a copy is not provided for each reference previously cited by or submitted to the Patent Office in prior parent application Serial No. 09/913,851.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☐ the concise explanation contained in the specification of the present application at page ,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☐ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Mitsuhiko TANAHASHI et al.

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August 22, 2003

Sheet 1 of 2							
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i> Date Submitted to PTO: August 22, 2003				ATTY DOCKET NO. 2003_1201		SERIAL NO. NEW	
APPLICANT Mitsuhiro TANAHASHI et al.				FILING DATE August 22, 2003		GROUP	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,629,053	12/1971	Kimura et al.	428	374	
	AB	4,912,821	4/1990	Mutsuo	28	265	
	AC	3,977,173	8/1976	Kosaka et al.	57	205	
	AD	3,333,441	8/1967		66/147		
	AE	4,957,807	9/1990	McCullough et al.	428	222	
	AL	6,335,093	1/2002	Mori et al.	428	370	
	AG	3,705,823	12/1972		427	389	
	AH	4,539,805	9/1985	Ukai et al.	57	290	
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	09-157981	6/1997	JP			
	AK	06-280120	10/1994	JP			
	AL	63-75130	4/1998	JP			
	AM	10-130990	5/1998	JP			
	AN	0330163	8/1989	EP			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO	Naohisa Ohshima, Structural Studies for Cellulosic Fibers Treated under High Pressure Steam (II), Preprints of Annual Meeting of Sen-i Gakkai (Kyoto), Vol. 55, No. 1, p. 141 (2000) with English translation					
	AP	Mitsuhiro Tanahashi, Transformation of Cellulose Crystalline Structures by Swelling Solvents and High Pressure Steam Treatments, Outlines of lecture at the 7 th Annual Meeting of the Cellulose Society of Japan (Tokyo), p. 13-14 (2000) with English abstract					
	AQ	Naohisa Ohshima, Changes on Structure of Cellulose Microfibrils by High-pressure Steaming, Outlines of lecture at the 7 th Annual Meeting of the Cellulose Society of Japan (Tokyo), p. 79 (2000) with English abstract					
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 2 of 2							
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i> Date Submitted to PTO: August 22, 2003				ATTY DOCKET NO. 2003_1201		SERIAL NO. NEW	
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	BD						
	BE						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	BF	Naohisa Ohshima, Structural Analysis for Cellulosic Fibers Treated under High Pressure Stream, Proceedings of the 5 th Asian Textile Conference (Kyoto), Vol. 2, p. 1206-1209 (1999)					
	BG	Naohisa Oshima, Structural Studies for Cellulosic Fibers Treated under High Pressure Steam, Preprints of meeting of Sen-i Gakkai (Gifu), F-213 (1998) with English translation					
	BH	Ihoko Shimohata, Fixation Mechanism of Natural Fibers by High-pressure Steam-treatment, Preprints of meeting of Sen-i Gakkai (Sakai), F-34 (1997) with English translation					
	BI	Mitsuhiko Tanahashi, Shape-memorization of Cellulosics by High-pressure Stream-treatment, Outlines of lecture at the 2 nd Meeting of the Cellulose Society of Japan (Uji), p. 39-40 (1995) with English abstract					
	BJ	Mitsuhiko Tanahashi, Fixation and improvement of cellulosic fiber form by high-pressure steam treatment (II), Outlines of the 42 nd Meeting of the Japan Wood Research Society, p. 371 (1992) with English translation					
	BK	Mitsuhiko Tanahashi, Permanent Set of Natural Fibers and Textiles by High-pressure and high-temperature Steam Treatment, Preprints of meeting of Sen-i Gakkai, F-17 (1992) with English translation					
EXAMINER				DATE CONSIDERED			

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